WHAT IS CLAIMED IS:

1. A lens array, comprising:

a photosensitive glass plate having a silicate glass composition with at least the following elements:

SiO₂ (65-85wt%)

Li₂O (8-11wt%)

Al₂O₃ (2-7wt%)

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 ${\rm CeO_2}$ (0.01-0.05wt%)and including an amount of a photosensitive agent, the photosensitive agent comprised of either Au or Ag and/or combinations thereof, the amounts each being:

Au (0.005-0.015wt%)

Ag (0.0005-0.005wt%)

wherein when the photosensitive glass plate is subjected to an exposure step, a heat treatment step and a prolonged ion exchange step it becomes a glass composite plate that includes a plurality of glass regions which are lenses and at least one opal region located around the lenses.

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- 2. The lens array of Claim 1, wherein said glass composite plate has clear, colorless lenses.
- 3. The lens array of Claim 1, wherein said glass composite plate has lenses formed therein which have enhanced sag heights.
 - 4. The lens array of Claim 1, wherein said photosensitive glass plate includes only silver as the photosensitive agent.
- 5. The lens array of Claim 1, wherein said photosensitive glass plate includes only gold as the photosensitive agent.

- 6. The lens array of Claim 1, wherein said photosensitive glass plate has a composition selected from the group of compositions listed in TABLES 3A-3B.
- 7. The lens array of Claim 1, wherein said prolonged ion exchange step is used to increase the sag height of the lenses by immersing the glass composite plate into a KNO₃ molten salt bath at 500°C for times on the order of 64 hours.
 - 8. The lens array of Claim 1, wherein said silicate glass composition of said photosensitive glass plate has the following elements:

Na₂O (0-10wt%)

K₂O (0-8wt%)

ZnO (0-5wt%)

 Sb_2O_3 (0-5wt%); and

KnO₃ (0-5wt%).

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9. A method for making a lens array, said method comprising the steps of:

placing a photomask over a non-exposed photosensitive glass plate having a silicate glass composition with at least the following elements:

 SiO_2 (65-85wt%)

Li₂O (8-11wt%)

 Al_2O_3 (2-7wt%)

 $CeO_2(0.01-0.05wt\%)$

and including an amount of a photosensitive agent, the photosensitive agent comprised of either Au or Ag and/or combinations thereof, the amounts each being:

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Au (0.005-0.015wt%)

Ag (0.0005-0.005wt%);

exposing the photomask and selected regions in the non-exposed photosensitive glass plate to an ultraviolet light;

heating the exposed photosensitive glass plate to form therein a plurality of glass regions and at least one opal region; and

ion exchanging the heated photosensitive glass plate to create said lens array, wherein said lens array is a glass composite plate where the plurality of glass regions are lenses and the at least one opal region is located around the lenses.

- 10. The method of Claim 9, wherein said lens array has clear, colorless lenses.
- 11. The method of Claim 9, wherein said lens array has lenses formed therein which have enhanced sag heights.
- 10 12. The method of Claim 9, wherein said photosensitive glass plate includes only silver as the photosensitive agent.
 - 13. The method of Claim 9, wherein said photosensitive glass plate includes only gold as the photosensitive agent.
 - 14. The method of Claim 9, wherein said photosensitive glass plate has a composition selected from the group of compositions listed in TABLES 3A-3B.
 - 15. The method of Claim 9, wherein said ion exchange step is used to increase the sag height of the lenses by immersing the glass composite plate into a KNO₃ molten salt bath at 500°C for times on the order of 64 hours.
 - 16. The method of Claim 9, wherein said silicate glass composition of said photosensitive glass plate has the following elements:

Na₂O (0-10wt%)

 K_2O (0-8wt%)

ZnO (0-5wt%)

 Sb_2O_3 (0-5wt%); and

KnO₃ (0-5wt%).

17. A photosensitive glass plate having a silicate glass composition with at least the following elements:

SiO₂ (65-85wt%)

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Li₂O (8-11wt%)

 Al_2O_3 (2-7wt%)

 $CeO_2(0.01-0.05wt\%)$

and including an amount of a photosensitive agent, the photosensitive agent comprised of either Au or Ag and/or combinations thereof, the amounts each being:

Au (0.005-0.015wt%)

Ag (0.0005-0.005wt%).

18. The photosensitive glass plate of Claim 17, wherein said silicate glass composition has the following elements:

Na₂O (0-10wt%)

 K_2O (0-8wt%)

ZnO (0-5wt%)

 Sb_2O_3 (0-5wt%); and

KnO₃ (0-5wt%).

- 19. The photosensitive glass plate of Claim 17, wherein said photosensitive glass plate is subjected to an exposure step, a heat treatment step and a prolonged ion exchange step and becomes a glass composite plate that includes a plurality of glass regions which are lenses and at least one opal region located around the lenses.
- 20. The photosensitive glass plate of Claim 19, wherein said glass composite plate has clear, colorless lenses.
- 21. The photosensitive glass plate of Claim 19, wherein said glass composite plate has lenses formed therein which have enhanced sag heights.
- 22. A photosensitive glass plate having a silicate glass composition with at least the following elements:

SiO₂ (65-85wt%)

Li₂O (8-11wt%)

Al₂O₃ (2-7wt%)

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CeO₂ (0.01-0.05wt%); and Au (0.005-0.015wt%).

The photosensitive glass plate of Claim 22, wherein said silicate glass composition has the following elements:

Na₂O (0-10wt%)

K₂O (0-8wt%)

ZnO (0-5wt%)

Sb₂O₃ (0-5wt%); and

 KnO_3 (0-5wt%).

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24. A photosensitive glass plate having a silicate glass composition with at least the following elements:

SiO₂ (65-85wt%)

Li₂O (8-11wt%)

 Al_2O_3 (2-7wt%)

 CeO_2 (0.01-0.05wt%); and

Ag (0.0005-0.005wt%).

25. The photosensitive glass plate of Claim 24, wherein said silicate glass composition has the following elements:

Na₂O (0-10wt%)

K₂O (0-8wt%)

ZnO (0-5wt%)

Sb₂O₃ (0-5wt%); and

KnO₃ (0-5wt%).